

SEQUENCE LISTING

<110> Frank B. Gertler
James E. Bear
Jurgen Wehland
Joseph Loureiro

<120> Methods and Products for Regulating Cell
Motility

<130> M0656/7064 (HCL)

<140> unassigned

<141> 2001-04-03

<150> 60/194,564

<151> 2000-04-03

<160> 11

<170> FastSEQ for Windows Version 3.0

<210> 1

<211> 10

<212> PRT

<213> Listeria monocytogenes

<220>

<221> UNSURE

<222> (1)...(1)

<223> Xaa is Asp or Glu

<221> UNSURE

<222> (7)...(7)

<223> Xaa is any amino acid

<400> 1

Xaa	Phe	Pro	Pro	Pro	Pro	Xaa	Asp	Asp	Glu
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<210> 2

<211> 802

<212> PRT

<213> Mus musculus

<400> 2

Met	Ser	Glu	Gln	Ser	Ile	Cys	Gln	Ala	Arg	Ala	Ala	Val	Met	Val	Tyr
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Asp	Asp	Ala	Asn	Lys	Lys	Trp	Val	Pro	Ala	Gly	Gly	Ser	Thr	Gly	Phe
			20					25				30			
Ser	Arg	Val	His	Ile	Tyr	His	His	Thr	Gly	Asn	Asn	Thr	Phe	Arg	Val
		35				40					45				
Val	Gly	Arg	Lys	Ile	Gln	Asp	His	Gln	Val	Val	Ile	Asn	Cys	Ala	Ile
	50				55				60						
Pro	Lys	Gly	Leu	Lys	Tyr	Asn	Gln	Ala	Thr	Gln	Thr	Phe	His	Gln	Trp
65				70					75					80	
Arg	Asp	Ala	Arg	Gln	Val	Tyr	Gly	Leu	Asn	Phe	Gly	Ser	Lys	Glu	Asp
			85					90					95		
Ala	Asn	Val	Phe	Ala	Ser	Ala	Met	Met	His	Ala	Leu	Glu	Val	Leu	Asn
			100				105					110			
Ser	Gln	Glu	Ala	Ala	Gln	Ser	Lys	Val	Thr	Ala	Thr	Gln	Asp	Ser	Thr
		115				120					125				
Asn	Leu	Arg	Cys	Ile	Phe	Cys	Gly	Pro	Thr	Leu	Pro	Arg	Gln	Asn	Ser
	130					135				140					
Gln	Leu	Pro	Ala	Gln	Val	Gln	Asn	Gly	Pro	Ser	Gln	Glu	Glu	Leu	Glu
145				150					155					160	
Ile	Gln	Arg	Arg	Gln	Leu	Gln	Glu	Gln	Gln	Arg	Gln	Lys	Glu	Leu	Glu

				165					170					175			
Arg	Glu	Arg	Met	180	Arg	Glu	Arg	Leu	Glu	Arg	Glu	Arg	Leu	Glu	Arg		
Glu	Arg	Leu	Glu	195	Arg	Glu	Arg	Leu	Glu	Gln	Glu	Gln	Leu	Glu	Arg	Gln	
Arg	Gln	Glu	Arg	210	Glu	His	Val	200	Arg	Leu	Glu	Arg	Glu	Arg	Leu	Glu	
Arg	Leu	Glu	Arg	225	Glu	Arg	Gln	Glu	Arg	Glu	Arg	Glu	Arg	Leu	Glu	Gln	
Leu	Glu	Arg	Glu	245	Gln	Val	Glu	Trp	Glu	Arg	Glu	Arg	Arg	Met	Ser	Asn	
Ala	Ala	Pro	Ser	260	Ser	Asp	Ser	Ser	Leu	Ser	Ser	Ala	Pro	Leu	Pro	Glu	
Tyr	Ser	Ser	Cys	275	Gln	Pro	Pro	Ser	Ala	Pro	Pro	Pro	Ser	Tyr	Ala	Lys	
Val	Ile	Ser	Ala	290	Pro	Val	Ser	Asp	Ala	Thr	Pro	Asp	Tyr	Ala	Val	Val	
Thr	Ala	Leu	Pro	305	Pro	Thr	Ser	Thr	Pro	Pro	Thr	Pro	Pro	Leu	Arg	His	
Ala	Ala	Thr	Arg	325	Phe	Ala	Thr	Ser	Leu	Gly	Ser	Ala	Phe	His	Pro	Val	
Leu	Pro	His	Tyr	340	Ala	Thr	Val	Pro	Arg	Pro	Leu	Asn	Lys	Asn	Ser	Arg	
Pro	Ser	Ser	Pro	355	Val	Asn	Thr	Pro	Ser	Ser	Gln	Pro	Pro	Ala	Ala	Lys	
Ser	Cys	Ala	Trp	370	Pro	Thr	Ser	Asn	Phe	Ser	Pro	Leu	Pro	Pro	Ser	Pro	
Pro	Ile	Met	Ile	385	Ser	Ser	Pro	Pro	Gly	Lys	Ala	Thr	Gly	Pro	Arg	Pro	
Val	Leu	Pro	Val	405	Cys	Val	Ser	Ser	Pro	Val	Pro	Gln	Met	Pro	Pro	Ser	
Pro	Thr	Ala	Pro	420	Asn	Gly	Ser	Leu	Asp	Ser	Val	Thr	Tyr	Pro	Val	Ser	
Pro	Pro	Pro	Thr	435	Ser	Gly	Pro	Ala	Ala	Pro	Pro	Pro	Pro	Pro	Pro	Pro	
Pro	Pro	Pro	Pro	450	Pro	Pro	Pro	Pro	Leu	Pro	Pro	Pro	Pro	Pro	Leu	Pro	
Leu	Ala	Ser	Leu	465	Ser	His	Cys	Gly	Ser	Gln	Ala	Ser	Pro	Pro	Pro	Gly	
Thr	Pro	Leu	Ala	485	Ser	Thr	Pro	Ser	Ser	Lys	Pro	Ser	Val	Leu	Pro	Ser	
Pro	Ser	Ala	Gly	500	Ala	Pro	Ala	Ser	Ala	Glu	Thr	Pro	Leu	Asn	Pro	Glu	
Leu	Gly	Asp	Ser	515	Ser	Ala	Ser	Glu	Pro	Gly	Leu	Gln	Ala	Ala	Ser	Gln	
Pro	Ala	Glu	Ser	530	Pro	Thr	Pro	Gln	Gly	Leu	Val	Leu	Gly	Pro	Pro	Ala	
Pro	Pro	Pro	Pro	545	Pro	Pro	Leu	Pro	Ser	Gly	Pro	Ala	Tyr	Ala	Ser	Ala	
Leu	Pro	Pro	Pro	565	Pro	Gly	Pro	Pro	Pro	Pro	Pro	Pro	Leu	Pro	Ser	Thr	
Gly	Pro	Pro	Pro	580	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Leu	Pro	Asn	Gln	Ala	
Pro	Pro	Pro	Pro	595	Pro	Pro	Pro	Pro	Ala	Pro	Pro	Leu	Pro	Ala	Ser	Gly	
Ile	Phe	Ser	Gly	610	Ser	Thr	Ser	Glu	Asp	Asn	Arg	Pro	Leu	Thr	Gly	Leu	
Ala	Ala	Ala	Ile	625	Ala	Gly	Ala	Lys	Leu	Arg	Lys	Val	Ser	Arg	Val	Glu	
Asp	Gly	Ser	Phe	645	Pro	Gly	Gly	Gly	Asn	Thr	Gly	Ser	Val	Ser	Leu	Ala	
Ser	Ser	Lys	Ala	660	Asp	Ala	Gly	Arg	Gly	Asn	Gly	Pro	Leu	Pro	Leu	Gly	
Gly	Ser	Gly	Leu	675	Met	Glu	Glu	Met	Ser	Ala	Leu	Leu	Ala	Arg	Arg	Arg	
Arg	Ile	Ala	Glu	690	Lys	Gly	Ser	Thr	Ile	Glu	Thr	Glu	Gln	Lys	Glu	Asp	
Arg	Asn	Glu	Asp		Ala	Glu	Pro	Ile</									

705	Thr	Pro	Glu	Pro	Thr	Arg	Lys	Pro	Trp	Glu	Arg	Thr	Asn	Thr	Met	Asn	720
					725	Val	Ile	Ser	Arg	730	Lys	Ser	Thr	Pro	Ser	Ser	
Gly	Ser	Lys	Ser	Pro	740				745					750			
Gln	Pro	Ser	Ala	Asn	Gly	Val	Gln	Thr	Glu	Gly	Leu	Asp	Tyr	Asp	Arg		
		755			760							765					
Leu	Lys	Gln	Asp	Ile	Leu	Asp	Glu	Met	Arg	Lys	Glu	Leu	Ala	Lys	Leu		
	770				775						780						
Lys	Glu	Glu	Leu	Ile	Asp	Ala	Ile	Arg	Gln	Glu	Leu	Ser	Lys	Ser	Asn		
	785				790					795					800		
Thr	Ala																

<210> 3
 <211> 5
 <212> PRT
 <213> Listeria monocytogenes

<400> 3
 Phe Pro Pro Pro Pro
 1 5

<210> 4
 <211> 5
 <212> PRT
 <213> Listeria monocytogenes

<400> 4
 Ala Pro Pro Pro Pro
 1 5

<210> 5
 <211> 639
 <212> PRT
 <213> Listeria monocytogenes

<400> 5

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Ala	Asn	Cys	Ile	Thr	Ile	Asn	Pro	Asp	Ile	Ile	Phe	Ala	Ala	Thr	Asp		
			20					25					30				
Ser	Glu	Asp	Ser	Ser	Leu	Asn	Thr	Asp	Glu	Trp	Glu	Glu	Glu	Lys	Thr		
		35						40					45				
Glu	Glu	Gln	Pro	Ser	Glu	Val	Asn	Thr	Gly	Pro	Arg	Tyr	Glu	Thr	Ala		
		50				55					60						
Arg	Glu	Val	Ser	Ser	Arg	Asp	Ile	Lys	Glu	Leu	Glu	Lys	Ser	Asn	Lys		
65					70					75				80			
Val	Arg	Asn	Thr	Asn	Lys	Ala	Asp	Leu	Ile	Ala	Met	Leu	Lys	Glu	Lys		
				85					90					95			
Ala	Glu	Lys	Gly	Pro	Asn	Ile	Asn	Asn	Asn	Asn	Ser	Glu	Gln	Thr	Glu		
			100					105					110				
Asn	Ala	Ala	Ile	Asn	Glu	Glu	Ala	Ser	Gly	Ala	Asp	Arg	Pro	Ala	Ile		
		115					120					125					
Gln	Val	Glu	Arg	Arg	His	Pro	Gly	Leu	Pro	Ser	Asp	Ser	Ala	Ala	Glu		
		130				135					140						
Ile	Lys	Lys	Arg	Arg	Lys	Ala	Ile	Ala	Ser	Ser	Asp	Ser	Glu	Leu	Glu		
145					150					155				160			
Ser	Leu	Thr	Tyr	Pro	Asp	Lys	Pro	Thr	Lys	Val	Asn	Lys	Lys	Lys	Val		
				165					170					175			
Ala	Lys	Glu	Ser	Val	Ala	Asp	Ala	Ser	Glu	Ser	Asp	Leu	Asp	Ser	Ser		
			180					185					190				
Met	Gln	Ser	Ala	Asp	Glu	Ser	Ser	Pro	Gln	Pro	Leu	Lys	Ala	Asn	Gln		
		195					200					205					
Gln	Pro	Phe	Phe	Pro	Lys	Val	Phe	Lys	Lys	Ile	Lys	Asp	Ala	Gly	Lys		
	210					215					220						
Trp	Val	Arg	Asp	Lys	Ile	Asp	Glu	Asn	Pro	Glu	Val	Lys	Lys	Ala	Ile		
225					230					235					240		

Val Asp Lys Ser Ala Gly Leu Ile Asp Gln Leu Leu Thr Lys Lys Lys
 245 250 255
 Ser Glu Glu Val Asn Ala Ser Asp Phe Pro Pro Pro Thr Asp Glu
 260 265 270
 Glu Leu Arg Leu Ala Leu Pro Glu Thr Pro Met Leu Leu Gly Phe Asn
 275 280 285
 Ala Pro Ala Thr Ser Glu Pro Ser Ser Phe Glu Phe Pro Pro Pro
 290 295 300
 Thr Asp Glu Glu Leu Arg Leu Ala Leu Pro Glu Thr Pro Met Leu Leu
 305 310 315 320
 Gly Phe Asn Ala Pro Ala Thr Ser Glu Pro Ser Ser Phe Glu Phe Pro
 325 330 335
 Pro Pro Pro Thr Glu Asp Glu Leu Glu Ile Ile Arg Glu Thr Ala Ser
 340 345 350
 Ser Leu Asp Ser Ser Phe Thr Arg Gly Asp Leu Ala Ser Leu Arg Asn
 355 360 365
 Ala Ile Asn Arg His Ser Gln Asn Phe Ser Asp Phe Pro Pro Ile Pro
 370 375 380
 Thr Glu Glu Glu Leu Asn Gly Arg Gly Gly Arg Pro Thr Ser Glu Glu
 385 390 395 400
 Phe Ser Ser Leu Asn Ser Gly Asp Phe Thr Asp Asp Glu Asn Ser Glu
 405 410 415
 Thr Thr Glu Glu Glu Ile Asp Arg Leu Ala Asp Leu Arg Asp Arg Gly
 420 425 430
 Thr Gly Lys His Ser Arg Asn Ala Gly Phe Leu Pro Leu Asn Pro Phe
 435 440 445
 Ala Ser Ser Pro Val Pro Ser Leu Ser Pro Lys Val Ser Lys Ile Ser
 450 455 460
 Ala Pro Ala Leu Ile Ser Asp Ile Thr Lys Lys Thr Pro Phe Lys Asn
 465 470 475 480
 Pro Ser Gln Pro Leu Asn Val Phe Asn Lys Lys Thr Thr Thr Lys Thr
 485 490 495
 Val Thr Lys Lys Pro Thr Pro Val Lys Thr Ala Pro Lys Leu Ala Glu
 500 505 510
 Leu Pro Ala Thr Lys Pro Gln Glu Thr Val Leu Arg Glu Asn Lys Thr
 515 520 525
 Pro Phe Ile Glu Lys Gln Ala Glu Thr Asn Lys Gln Ser Ile Asn Met
 530 535 540
 Pro Ser Leu Pro Val Ile Gln Lys Glu Ala Thr Glu Ser Asp Lys Glu
 545 550 555 560
 Glu Met Lys Pro Gln Thr Glu Glu Lys Met Val Glu Glu Ser Glu Ser
 565 570 575
 Ala Asn Asn Ala Asn Gly Lys Asn Arg Ser Ala Gly Ile Glu Glu Gly
 580 585 590
 Lys Leu Ile Ala Lys Ser Ala Glu Asp Glu Lys Ala Lys Glu Glu Pro
 595 600 605
 Gly Asn His Thr Thr Leu Ile Leu Ala Met Leu Ala Ile Gly Val Phe
 610 615 620
 Ser Leu Gly Ala Phe Ile Lys Ile Ile Gln Leu Arg Lys Asn Asn
 625 630 635

<210> 6
 <211> 4
 <212> PRT
 <213> Homo sapien

 <220>
 <221> UNSURE
 <222> (4)...(4)
 <223> Xaa is any amino acid

<400> 6
 Cys Ala Ala Xaa
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<210> 7
 <211> 9
 <212> PRT

<213> Homo sapien

<220>

<221> UNSURE

<222> (9)...(9)

<223> Xaa is any amino acid

<400> 7

Phe Pro Pro Pro Pro Cys Ala Ala Xaa
1 5

<210> 8

<211> 9

<212> PRT

<213> Homo sapien

<220>

<221> UNSURE

<222> (9)...(9)

<223> Xaa is any amino acid

<400> 8

Ala Pro Pro Pro Pro Cys Ala Ala Xaa
1 5

<210> 9

<211> 684

<212> PRT

<213> Drosophila melanogaster

<400> 9

Met	Thr	Glu	Gln	Ser	Ile	Ile	Gly	Ala	Arg	Ala	Ser	Val	Met	Val	Tyr
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Asp	Asp	Asn	Gln	Lys	Lys	Trp	Val	Pro	Ser	Gly	Ser	Ser	Ser	Gly	Leu
		20						25					30		
Ser	Lys	Val	Gln	Ile	Tyr	His	His	Gln	Gln	Asn	Asn	Thr	Phe	Arg	Val
		35					40					45			
Val	Gly	Arg	Lys	Leu	Gln	Asp	His	Glu	Val	Val	Ile	Asn	Cys	Ser	Ile
		50				55					60				
Leu	Lys	Gly	Leu	Lys	Tyr	Asn	Gln	Ala	Thr	Ala	Thr	Phe	His	Gln	Trp
65					70				75					80	
Arg	Asp	Ser	Lys	Phe	Val	Tyr	Gly	Leu	Asn	Phe	Ser	Ser	Gln	Asn	Asp
			85						90					95	
Ala	Glu	Asn	Phe	Ala	Arg	Ala	Met	Met	His	Ala	Leu	Glu	Val	Leu	Ser
			100					105					110		
Gly	Arg	Val	Ala	Asn	Asn	Pro	Gly	Gly	Pro	Pro	Thr	Asn	Gly	Asn	Gly
			115				120					125			
Tyr	Glu	Asp	Met	Gly	Tyr	Arg	Thr	Met	Thr	Ser	Glu	Asp	Ala	Ala	
		130				135				140					
Ile	Leu	Arg	Gln	Asn	Asn	Ser	Ile	Gly	Gly	His	Val	Thr	Pro	Ser	Ala
145					150					155					160
Gln	Thr	Pro	Thr	Ser	Gln	Thr	Asn	Gln	Asn	Asn	Ile	Pro	Gln	Ser	Pro
				165					170					175	
Pro	Thr	Pro	Gln	Gly	His	His	Arg	Thr	Ser	Ser	Ala	Pro	Pro	Ala	Pro
			180					185					190		
Gln	Pro	Gln	Gln	Gln	Gln	Gln	Gln	Gln	Gln	Ala	Gln	Gln	Met	Gly	Gln
			195				200					205			
Pro	Gly	Ser	His	Tyr	Gly	Pro	Thr	Gly	Asn	Gly	Pro	Thr	Ser	Asn	Gly
			210			215					220				
Leu	Pro	Gln	Gln	Val	Asn	Ser	Gln	Ile	Pro	Pro	Ala	Pro	Gln	Gln	Gln
225					230					235					240
Pro	Gln	Gln	Gln	Gln	Phe	Gln	Gln	Gln	Gln	Gln	Gln	Gln	Gln	Tyr	Gln
				245				250						255	
Gln	Met	Val	Gln	Ala	Gly	Tyr	Ala	Pro	Ser	Gln	Gln	Tyr	Gln	Gln	Pro
			260				265					270			
His	Tyr	Val	Leu	Ser	Asn	Ser	Asn	Pro	Asn	Leu	Thr	Val	His	Gln	Tyr
		275				280						285			
Pro	Thr	Gln	Gln	Ala	Gln	Gln	Gln	Pro	Pro	Gln	Ala	Pro	Gln	Pro	Pro

290	295	300
Leu Gln Asn Gly Gly Met Tyr Met Val Gly His Ser His Leu Pro Ser		
305	310	315
Ser Ala Ser Ala Asn Ser Val Val Tyr Ala Ser Gln Gln Gln Met Leu		
	325	330
Pro Gln Ala His Pro Gln Ala Pro Gln Ala Pro Thr Met Pro Gly Pro		
	340	345
Gly Tyr Gly Gly Pro Pro Val Pro Pro Pro Gln Gln Gln Ala Glu Asn		
	355	360
Pro Tyr Gly Gln Val Pro Met Pro Pro Pro Met Asn Pro Ser Gln Gln		
	370	375
Gln Gln Pro Gly Gln Val Pro Leu Asn Arg Met Ser Ser Gln Gly Gly		
385	390	395
Pro Gly Gly Pro Pro Ala Pro Ala Pro Pro Pro Pro Pro Pro Ser Phe		
	405	410
Gly Gly Ala Ala Gly Gly Gly Pro Pro Pro Pro Ala Pro Gln Met		
	420	425
Phe Asn Gly Ala Pro Pro Pro Pro Ala Met Gly Gly Gly Pro Pro Pro		
	435	440
Ala Pro Pro Ala Pro Pro Ala Met Gly Gly Gly Pro Pro Pro Ala Pro		
	450	455
Gly Gly Pro Gly Ala Pro Pro Pro Pro Pro Pro Pro Gly Leu Gly		
465	470	475
Gly Ala Pro Lys Lys Glu Asp Pro Gln Ala Asp Leu Met Gly Ser Leu		
	485	490
Ala Ser Gln Leu Gln Gln Phe Lys Leu Lys Lys Asn Lys Val Thr Thr		
	500	505
Ser Ala Pro Glu Asn Ser Gly Ser Ser Thr Ser Ser Gly Gly Ser Gly		
	515	520
Asn Tyr Gly Thr Ile Gly Arg Ser Ser Asn Gly Met Ala Ser Met Met		
	530	535
Asp Glu Met Ala Lys Thr Leu Ala Arg Arg Arg Ala Gln Ala Glu Lys		
545	550	555
Lys Asp Pro Asp Pro Glu Ala Glu Val Lys Lys Arg Pro Trp Glu Lys		
	565	570
Ser Asn Thr Leu Pro His Lys Leu Ser Gly Gly Ala Gly Ser Gly Ser		
	580	585
Ala Gly Ser Gly His Glu Gly Ala Asn Gly Asn Ser Gly Gly Ala Gly		
	595	600
Ser Asn Thr Thr Asn Ser Gly Gly Glu Ser Pro Arg Pro Met Arg Lys		
	610	615
Arg Phe Gly Ser Ala Ser Glu Glu Thr Ile Leu Lys Val Asn Gly Asp		
625	630	635
Gly Leu Ser Leu Ala Leu Ser Asn Gly Asp Leu Asp Thr Leu Lys Ala		
	645	650
Glu Ile Val Arg Glu Met Arg Leu Glu Ile Gln Lys Val Lys Asn Glu		
	660	665
Ile Ile Asp Ala Ile Lys Ser Glu Phe Asn Arg Arg		
	675	680

<210> 10
 <211> 380
 <212> PRT
 <213> Homo sapien

<400> 10
Met Ser Glu Thr Val Ile Cys Ser Ser Arg Ala Thr Val Met Leu Tyr
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Asp Asp Gly Asn Lys Arg Trp Leu Pro Ala Gly Thr Gly Pro Gln Ala
20 25 30
Phe Ser Arg Val Gln Ile Tyr His Asn Pro Thr Ala Asn Ser Phe Arg
35 40 45
Val Val Gly Arg Lys Met Gln Pro Asp Gln Gln Val Val Ile Asn Cys
50 55 60
Ala Ile Val Arg Gly Val Lys Tyr Asn Gln Ala Thr Pro Asn Phe His
65 70 75 80
Gln Trp Arg Asp Ala Arg Gln Val Trp Gly Leu Asn Phe Gly Ser Lys
85 90 95

Glu	Asp	Ala	Ala	Gln	Phe	Ala	Ala	Gly	Met	Ala	Ser	Ala	Leu	Glu	Ala
			100					105					110		
Leu	Glu	Gly	Gly	Gly	Pro	Pro	Pro	Pro	Pro	Ala	Leu	Pro	Thr	Trp	Ser
		115					120					125			
Val	Pro	Asn	Gly	Pro	Ser	Pro	Glu	Glu	Val	Glu	Gln	Gln	Lys	Arg	Gln
		130				135					140				
Gln	Pro	Gly	Pro	Ser	Glu	His	Ile	Glu	Arg	Arg	Val	Ser	Asn	Ala	Gly
145					150					155					160
Gly	Pro	Pro	Ala	Pro	Pro	Ala	Gly	Gly	Pro	Pro	Pro	Pro	Pro	Gly	Pro
				165					170					175	
Pro	Pro	Pro	Pro	Gly	Pro	Pro	Pro	Pro	Pro	Gly	Leu	Pro	Pro	Ser	Gly
			180					185				190			
Val	Pro	Ala	Ala	Ala	His	Gly	Ala	Gly	Gly	Gly	Pro	Pro	Pro	Ala	Pro
		195					200					205			
Pro	Leu	Pro	Ala	Ala	Gln	Gly	Pro	Gly	Gly	Gly	Gly	Ala	Gly	Ala	Pro
	210					215					220				
Gly	Leu	Ala	Ala	Ala	Ile	Ala	Gly	Ala	Lys	Leu	Arg	Lys	Val	Ser	Lys
225					230					235					240
Gln	Glu	Glu	Ala	Ser	Gly	Gly	Pro	Thr	Ala	Pro	Lys	Ala	Glu	Ser	Gly
				245					250					255	
Arg	Ser	Gly	Gly	Gly	Gly	Leu	Met	Glu	Glu	Met	Asn	Ala	Met	Leu	Ala
			260					265					270		
Arg	Arg	Arg	Lys	Ala	Thr	Gln	Val	Gly	Glu	Lys	Thr	Pro	Lys	Asp	Glu
			275				280					285			
Ser	Ala	Asn	Gln	Glu	Glu	Pro	Glu	Ala	Arg	Val	Pro	Ala	Gln	Ser	Glu
	290					295					300				
Ser	Val	Arg	Arg	Pro	Trp	Glu	Lys	Asn	Ser	Thr	Thr	Leu	Pro	Arg	Met
305					310					315					320
Lys	Ser	Ser	Ser	Ser	Val	Thr	Thr	Ser	Glu	Thr	Gln	Pro	Cys	Thr	Pro
				325					330					335	
Ser	Ser	Ser	Asp	Tyr	Ser	Asp	Leu	Gln	Arg	Val	Lys	Gln	Glu	Leu	Leu
			340					345					350		
Glu	Glu	Val	Lys	Lys	Glu	Leu	Gln	Lys	Val	Lys	Glu	Glu	Ile	Ile	Glu
		355					360					365			
Ala	Phe	Val	Gln	Glu	Leu	Arg	Lys	Arg	Gly	Ser	Pro				
	370					375					380				

<210> 11
 <211> 393
 <212> PRT
 <213> Mus musculus

<400> 11															
Met	Ser	Glu	Gln	Ser	Ile	Cys	Gln	Ala	Arg	Ala	Ser	Val	Met	Val	Tyr
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Asp	Asp	Thr	Ser	Lys	Lys	Trp	Val	Pro	Ile	Lys	Pro	Gly	Gln	Gln	Gly
			20					25					30		
Phe	Ser	Arg	Ile	Asn	Ile	Tyr	His	Asn	Thr	Ala	Ser	Ser	Thr	Phe	Arg
		35				40						45			
Val	Val	Gly	Val	Lys	Leu	Gln	Asp	Gln	Gln	Val	Val	Ile	Asn	Tyr	Ser
	50				55					60					
Ile	Val	Lys	Gly	Leu	Lys	Tyr	Asn	Gln	Ala	Thr	Pro	Thr	Phe	His	Gln
65					70					75					80
Trp	Arg	Asp	Ala	Arg	Gln	Val	Tyr	Gly	Leu	Asn	Phe	Ala	Ser	Lys	Glu
			85					90					95		
Glu	Ala	Thr	Thr	Phe	Ser	Asn	Ala	Met	Leu	Phe	Ala	Leu	Asn	Ile	Met
			100					105					110		
Asn	Ser	Gln	Glu	Gly	Gly	Pro	Ser	Thr	Gln	Arg	Gln	Val	Gln	Asn	Gly
		115				120						125			
Pro	Ser	Pro	Glu	Glu	Met	Asp	Ile	Gln	Arg	Arg	Gln	Val	Met	Glu	Gln
		130			135						140				
Gln	His	Arg	Gln	Glu	Ser	Leu	Glu	Arg	Arg	Ile	Ser	Ala	Thr	Gly	Pro
145					150					155					160
Ile	Leu	Pro	Pro	Gly	His	Pro	Ser	Ser	Ala	Ala	Ser	Thr	Thr	Leu	Ser
				165				170						175	
Cys	Ser	Gly	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Val	Pro	Pro	Pro	Pro
			180					185				190			
Thr	Gly	Ser	Thr	Pro	Pro	Pro	Pro	Pro	Pro	Leu	Pro	Ala	Gly	Gly	Ala

[illegible]